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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/598,406

02/06/2007

Bjarne Nordli

06117

3841

23338 7590 02/18/2009  
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1727 KING STREET  
SUITE 105  
ALEXANDRIA, VA 22314

EXAMINER

BARTOSIK, ANTHONY N

ART UNIT

PAPER NUMBER

3635

MAIL DATE

DELIVERY MODE

02/18/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/598,406	<b>Applicant(s)</b> NORDLI, BJARNE	
	<b>Examiner</b> ANTHONY N. BARTOSIK	<b>Art Unit</b> 3635	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 28 August 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### DETAILED ACTION

This is a Non-Final Rejection sent in response to Applicant's submission of August 28, 2006.

#### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

3. Claim 1 is regarded as indefinite due to the inclusion of "and/or" as it is not clear whether the language following the phrase is limiting or not.

4. Claim 3 is independently indefinite due to the language directed to the other two cogging pieces. It is unclear whether Applicant is intending to claim two additional cogging pieces as set forth above or if the cogging piece of claims 1-3 is simply capable of functioning with a cogging piece. For Examination purposes, in interpreting the claims in the broadest reasonable context, it is being assumed that the additional cogging pieces are functionally claimed. Claim 3 also contains several antecedent issues. The recitation of "upper laterally inclined surfaces." There is insufficient antecedent basis for this limitation in the claim. Claim 3 is additionally found to be indefinite with regards to the language of "the lateral projections." Claim 2 sets forth two

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sets of lateral projections and it is unclear if the language is intended to include one or both sets.

5. Claim 4 is also indefinite for the same reasons as claim 3.

6. Claim 5 is indefinite as it is unclear if Applicant is claiming the cogging system thereby positively claiming the constructional element or if it is only being claimed as functional language as set forth in claim 1. For Examination purposes, in interpreting the claims in the broadest reasonable context, it is being assumed that the additional cogging pieces are functionally claimed. Additionally, there is insufficient antecedent basis for "the lower, wedge-like projections."

### ***Claim Rejections - 35 USC § 102***

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

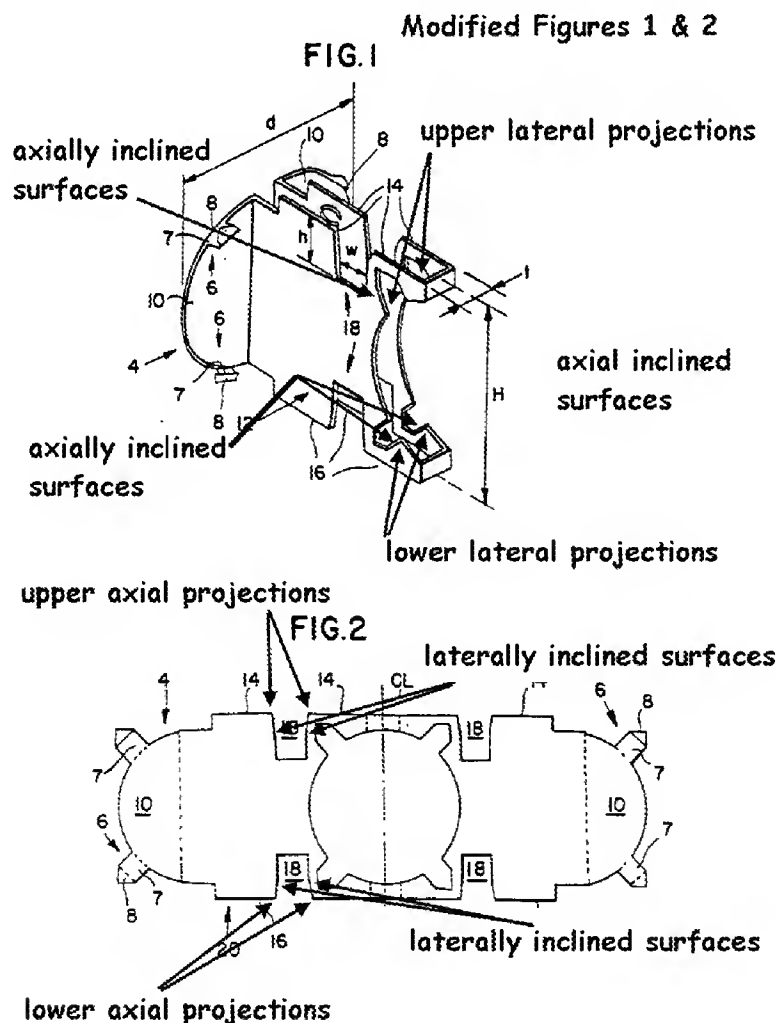
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. **Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Stein (U.S. 5,282,343).**

9. In Re claim 1, Figures 1 and 2 of Stein disclose a cogging piece provided with lateral (10) and axial inclined surfaces (12). The Examiner notes that since Applicant

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has not set forth structural limitations to the orientation, the claims are subject to broad interpretation. The additional language provided in claim 1 is either functional language or intended use language. To be limiting functional language or intended use language must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use it meets the limitations of the claim. MPEP 2106 (c) & 2114. Here, Stein is capable of meeting the functional and intended use limitations.

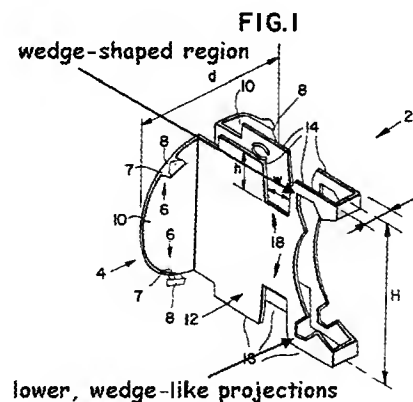


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10. In Re claim 2, Figures 1 and 2 (see modified Figs. 1 & 2) of Stein disclose two upper axial projections with laterally inclined surfaces and two lower axial projections with laterally inclined surfaces, two upper lateral projections with axially inclined surfaces and two lower lateral projection with axially inclined surfaces.

11. In Re claims 3 and 4, Figures 1 and 2 (see modified Figs. 1 & 2) of Stein disclose the claimed limitations. The Examiner notes that since Applicant has not set forth structural limitations to the shape and use, the language "corresponds" is then properly subject to broad interpretation.

12. In Re claim 5, Figures 1 and 2 (see modified Figs. 1 & 2) of Stein disclose a substantially wedge-shaped region between an upper axial inclined surface and the end of the log constructional element and the shape generally corresponding to the shape and dimension of the lower, wedge-like projections.



13. In Re claims 6 and 7, Figures 1 and 2 (see modified Figs. 1 & 2) of Stein disclose the claimed symmetrical orientation of the upper and lower axial projections.

14. In Re claim 8, Modified Figure 2 of Stein discloses the claimed symmetrical orientation of the upper and lower lateral projections.

15. In Re claim 9, Figure 4 of Stein discloses a permanently attaching means (8).

16. In Re claim 10, Figure 4 of Stein discloses a temporary attaching means (8).

17. In Re claim 11, Figure 4 of Stein discloses the claimed cogging piece. The phrase, "to be" above, is a statement of intended use of the claimed invention and must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use it meets the limitations of the claim. MPEP 2106 (c). Here the cogging piece of Stein is capable of being attached with a bracket and pin.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY N. BARTOSIK whose telephone number is (571)270-3112. The examiner can normally be reached on M-F 7:30-5:00; E.D.T.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached on 571-272-6777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Richard E. Chilcot, Jr./  
Supervisory Patent Examiner, Art Unit 3635

Anthony Bartosik  
Examiner  
Art Unit 3635

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